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Additional cycle formation from 2-dialkoxyphosphonylmethylthiazole

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Abstract

Diisopropoxyphosphonyl-2-(4-methylthiazolyl)methane I reacts with carbonyl and α-halocarbonyl compounds by three routes. In the case of Knoevenagel or Horner-Wadswort--Emmons reactions the corresponding ethylenes were produced, whereas employing α-halocarbonyls as partners resulted in pyrrolo[2.1b]thiazoles. 1-Phosphonyl-1-(2-thiazo-yl)-ethylene undergoes smoothly [4+2] and [3+2] cycloaddition reactions.

Keywords

1-phosphonyl-1-thiazolylethylenes, 3-methoxycarbonyl-5-dialkoxyphosphonyl-5-(4-methyl-hizol-2-yl)-2-pyrazoline, 6-dialkoxyphosphonylpyrrolo[2.1b]thiazoles, Dialkoxyphosphonyl-2--4-methylthiazolyl)methanes